

COC# 195

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CHAIN OF CUSTODY REPORT

Work Order #: M107048

CLIENT: BRISTOL				INVOICE TO: BRISTOL				TURNAROUND REQUEST in Business Days* Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div>10 7 5 4 3 2 1 <1</div> <div>STD.</div> <div>5 4 3 2 1 <1</div> </div> Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div>STD.</div> <div>OTHER</div> <div>Please Specify</div> </div> <p><small>*Turnaround Requests less than standard may incur Rush Charges.</small></p>												
REPORT TO: ANNE KRANAWETTER				P.O. NUMBER: 21090																
ADDRESS: AMCHITKA, AK																				
PHONE: 907-770-0974 FAX: 770-0975																				
PROJECT NAME: AMCHITKA				REQUESTED ANALYSES																
PROJECT NUMBER: 21090																				
SAMPLED BY: KLP																				
CLIENT SAMPLE IDENTIFICATION		SAMPLING DATE/TIME		PCBS	TSS, BOD	Metals	pH, DO	fecal coliform									MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01AMTEHSE KLP		7/24/01 1012		X	X	X	X	X									W	7		
2.																				
3. 01AMTE11SW																			eleven - CS - W	
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				
11.																				
12.																				
13.																				
14.																				
15.																				

RELINQUISHED BY: <i>Kyle Peterson</i>		DATE: 7/24/01		RECEIVED BY: <i>Steph L</i>		DATE: 7/24/01	
PRINT NAME: Kyle Peterson		TIME: 1030		PRINT NAME: Steph L		TIME: 1030	
RELINQUISHED BY:		DATE:		RECEIVED BY:		DATE:	
PRINT NAME:		TIME:		PRINT NAME:		TIME:	

ADDITIONAL REMARKS: Sewage Lagoon Effluent discharge from holding tank PCBs were previously sampled on 7/23/01 for this discharge		TEMP:	PAGE 1 OF 1
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541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/24/01 10:30. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M107048



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/04/01 07:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMTE11SW	M107048-01	Water	07/24/01 10:12	07/24/01 10:30

C.O.C # 195

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/04/01 07:50

Polychlorinated Biphenyls per EPA Method 8082

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE11SW (M107048-01) Water						Sampled: 07/24/01 Received: 07/24/01			
Aroclor 1016	ND	0.200	ug/l	1	EPA 8082	07/26/01	07/26/01	0107099	
Aroclor 1221	ND	0.400	"	"	"	"	"	"	
Aroclor 1232	ND	0.200	"	"	"	"	"	"	
Aroclor 1242	ND	0.200	"	"	"	"	"	"	
Aroclor 1248	ND	0.200	"	"	"	"	"	"	
Aroclor 1254	0.224	0.200	"	"	"	"	"	"	
Aroclor 1260	ND	0.200	"	"	"	"	"	"	
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	<i>60.0 %</i>	<i>44-119</i>							
<i>Surr: Decachlorobiphenyl</i>	<i>89.5 %</i>	<i>54-128</i>							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/04/01 07:50

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMTE11SW (M107048-01) Water

Sampled: 07/24/01 Received: 07/24/01

Arsenic	ND	0.00500	mg/l	1	EPA 6020	07/31/01	08/02/01	0107110	
Cadmium	ND	0.00200	"	"	"	"	"	"	
Chromium	ND	0.00500	"	"	"	"	"	"	
Lead	ND	0.00500	"	"	"	"	"	"	
Selenium	ND	0.00500	"	"	"	"	"	"	
Silver	ND	0.00200	"	"	"	"	"	"	
Mercury	ND	0.0000100	"	"	EPA 1631	07/28/01	07/29/01	0107106	

North Creek Analytical - Mobile Lab

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/04/01 07:50

Conventional Chemistry Parameters per APHA/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE11SW (M107048-01) Water						Sampled: 07/24/01 Received: 07/24/01			
Biochemical Oxygen Demand	ND	4.00	mg/l	1	EPA 405.1	07/24/01	07/29/01	0107091	
Dissolved Oxygen	7.58	1.00	"	"	EPA 360.1	07/24/01	07/24/01	0107092	A-01
pH	6.90	0.100	pH Units	"	EPA 150.1	"	"	"	
Total Suspended Solids	ND	10.0	mg/l	"	EPA 160.2	07/25/01	07/25/01	0107094	

North Creek Analytical - Mobile Lab

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/04/01 07:50

Microbiological Parameters per APHA Standard Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMTE11SW (M107048-01) Water					Sampled: 07/24/01 Received: 07/24/01				
E. Coli	3.10	2.00MPN/100 ml	1		SM 9221	07/24/01	07/26/01	0107093	A-01a
Total Coliforms	2420	2.00	"	"	"	"	"	"	B-14,A-01a

North Creek Analytical - Mobile Lab

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/04/01 07:50

Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107099 - 3520B Liq-Liq

Blank (0107099-BLK1)

Prepared & Analyzed: 07/26/01

Aroclor 1016	ND	0.200	ug/l							
Aroclor 1221	ND	0.400	"							
Aroclor 1232	ND	0.200	"							
Aroclor 1242	ND	0.200	"							
Aroclor 1248	ND	0.200	"							
Aroclor 1254	ND	0.200	"							
Aroclor 1260	ND	0.200	"							
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.142		"	0.200		71.0	44-119			
Surr: Decachlorobiphenyl	0.168		"	0.200		84.0	54-128			

LCS (0107099-BS1)

Prepared & Analyzed: 07/26/01

Aroclor 1254	0.822	0.200	ug/l	1.00		82.2	47-155			
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.168		"	0.200		84.0	44-119			
Surr: Decachlorobiphenyl	0.188		"	0.200		94.0	54-128			

LCS Dup (0107099-BSD1)

Prepared & Analyzed: 07/26/01

Aroclor 1254	0.673	0.200	ug/l	1.00		67.3	47-155	19.9	50	
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.127		"	0.200		63.5	44-119			
Surr: Decachlorobiphenyl	0.163		"	0.200		81.5	54-128			

Matrix Spike (0107099-MS1)

Source: M107048-01

Prepared & Analyzed: 07/26/01

Aroclor 1254	0.885	0.200	ug/l	1.00	0.224	66.1	50-150			
Surr: 2,4,5,6-Tetrachloro-m-xylene	0.101		"	0.200		50.5	44-119			
Surr: Decachlorobiphenyl	0.142		"	0.200		71.0	54-128			

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/04/01 07:50

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107106 - EPA 1631

Blank (0107106-BLK1)

Prepared: 07/28/01 Analyzed: 07/29/01

Mercury	ND	0.0000100	mg/l
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LCS (0107106-BS1)

Prepared: 07/28/01 Analyzed: 07/29/01

Mercury	0.000120	0.0000100	mg/l	0.000125	96.0	85-115
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Duplicate (0107106-DUP1)

Source: M107054-01

Prepared: 07/28/01 Analyzed: 07/29/01

Mercury	ND	0.0000100	mg/l	ND	20
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Matrix Spike (0107106-MS1)

Source: M107054-01

Prepared: 07/28/01 Analyzed: 07/29/01

Mercury	0.000118	0.0000100	mg/l	0.000125	ND	91.4	75-125
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Batch 0107110 - EPA 200/3005

Blank (0107110-BLK1)

Prepared: 07/31/01 Analyzed: 08/02/01

Arsenic	ND	0.00500	mg/l
Cadmium	ND	0.00200	"
Chromium	ND	0.00500	"
Lead	ND	0.00500	"
Selenium	ND	0.00500	"
Silver	ND	0.00200	"

LCS (0107110-BS1)

Prepared: 07/31/01 Analyzed: 08/02/01

Arsenic	0.0923	0.00500	mg/l	0.100	92.3	80-120
Cadmium	0.0854	0.00200	"	0.100	85.4	80-120
Chromium	0.0883	0.00500	"	0.100	88.3	80-120
Lead	0.0882	0.00500	"	0.100	88.2	80-120
Selenium	0.0944	0.00500	"	0.100	94.4	75-115
Silver	0.0899	0.00200	"	0.100	89.9	80-120

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/04/01 07:50

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107110 - EPA 200/3005

Duplicate (0107110-DUP1)

Source: M107048-01

Prepared: 07/31/01 Analyzed: 08/02/01

Arsenic	ND	0.00500	mg/l		ND		72.4	20	Q-05
Cadmium	ND	0.00200	"		ND			20	
Chromium	ND	0.00500	"		ND		146	20	Q-05
Lead	ND	0.00500	"		ND		33.2	20	Q-05
Selenium	ND	0.00500	"		ND			20	
Silver	ND	0.00200	"		ND		46.4	20	Q-05

Matrix Spike (0107110-MS1)

Source: M107048-01

Prepared: 07/31/01 Analyzed: 08/02/01

Arsenic	0.101	0.00500	mg/l	0.100	ND	99.9	75-125		
Cadmium	0.0868	0.00200	"	0.100	ND	86.8	75-125		
Chromium	0.0913	0.00500	"	0.100	ND	90.5	75-125		
Lead	0.0901	0.00500	"	0.100	ND	88.1	75-125		
Selenium	0.104	0.00500	"	0.100	ND	104	75-125		
Silver	0.0437	0.00200	"	0.100	ND	43.4	75-125		Q-02

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/04/01 07:50

Conventional Chemistry Parameters per APHA/EPA Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107091 - Wet Chem

Blank (0107091-BLK1)

Prepared: 07/24/01 Analyzed: 07/29/01

Biochemical Oxygen Demand ND 4.00 mg/l

LCS (0107091-BS1)

Prepared: 07/24/01 Analyzed: 07/29/01

Biochemical Oxygen Demand 181 4.00 mg/l 198 91.4 75-125

Duplicate (0107091-DUP1)

Source: M107048-01

Prepared: 07/24/01 Analyzed: 07/29/01

Biochemical Oxygen Demand ND 4.00 mg/l ND 40

Batch 0107092 - Wet Chem

Duplicate (0107092-DUP1)

Source: M107048-01

Prepared & Analyzed: 07/24/01

pH 6.90 0.100 pH Units 6.90 0 200

Batch 0107094 - Wet Chem

Blank (0107094-BLK1)

Prepared & Analyzed: 07/25/01

Total Suspended Solids ND 10.0 mg/l

LCS (0107094-BS1)

Prepared & Analyzed: 07/25/01

Total Suspended Solids 120 10.0 mg/l 120 100 80-120

Duplicate (0107094-DUP1)

Source: M107048-01

Prepared & Analyzed: 07/25/01

Total Suspended Solids ND 10.0 mg/l ND 20

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Project: Amchitka
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Reported:
08/04/01 07:50

Microbiological Parameters per APHA Standard Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107093 - Wet Chem

Blank (0107093-BLK1)

Prepared: 07/24/01 Analyzed: 07/26/01

E. Coli	ND	2.00	MPN/100 ml						A-01a
Total Coliforms	ND	2.00	"						A-01a

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/04/01 07:50

Notes and Definitions

A-01 DO bottle had head space when recieved.

A-01a Samples were removed from incubator at 47 hours, method calls for samples to be incubated between 24hrs and 28hrs. After discussion with microbiologist, sample results maybe bias high.

B-14 Result is greater than (>) stated value.

Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Q-05 Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M107048 FINAL 08 04 01 0750.mdb Default Report (not modified)
0107093-BLK1	E. Coli MPN-SM9221	E. Coli	A-01a
0107093-BLK1	TC MPN-SM9221	Total Coliforms	A-01a
0107110-DUP1	Ag Total ICPMS 6020	Silver	Q-05
0107110-DUP1	Ag Total ICPMS 6020	Silver	Exceeds RPD limit
0107110-DUP1	As Total ICPMS 6020	Arsenic	Q-05
0107110-DUP1	As Total ICPMS 6020	Arsenic	Exceeds RPD limit
0107110-DUP1	Cr Total ICPMS 6020	Chromium	Q-05
0107110-DUP1	Cr Total ICPMS 6020	Chromium	Exceeds RPD limit
0107110-DUP1	Pb Total ICPMS 6020	Lead	Q-05
0107110-DUP1	Pb Total ICPMS 6020	Lead	Exceeds RPD limit
0107110-MS1	Ag Total ICPMS 6020	Silver	Q-02
0107110-MS1	Ag Total ICPMS 6020	Silver	Exceeds lower control limit
M107048-01	DO-360.1	Dissolved Oxygen	A-01
M107048-01	E. Coli MPN-SM9221	E. Coli	A-01a
M107048-01	TC MPN-SM9221	Total Coliforms	A-01a
M107048-01	TC MPN-SM9221	Total Coliforms	B-14